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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 10/03/2008

Cook Alex Mcfarron Manzo Cummings & Mehler LTD 200 West Adams ST Suite 2850 Chicago, IL 60606

EXAMINER				
LEE, EUGENE				
ART UNIT PAPER NUMBER				

2815 DATE MAILED: 10/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/516,082	03/01/2000	Satoshi Murakami	SEL163	3545

TITLE OF INVENTION: SEMICONDUCTOR DEVICE COMPRISING A THIN FILM TRANSISTOR COMPRISING A SEMICONDUCTOR THIN FILM AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1440	\$1510	01/05/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance of herwise in Block 1, by (orders and notification of (a) specifying a new cor	f mainten: responden	ance fees will ace address; an	be mailed to the currend/or (b) indicating a se	it correspondence ac parate "FEE ADDRI	ldress as ESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fe	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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Cook Alex Mcfarron Manzo Cummings & Mehler LTD 200 West Adams ST			I Si ac tr	hereby ce tates Posta Idressed t ansmitted	rtify that this I al Service with to the Mail St to the USPTO	Fee(s) Transmittal is being sufficient postage for fittop ISSUE FEE addres (571) 273-2885, on the	ng deposited with the rst class mail in an e s above, or being f date indicated below	e United envelope facsimile v.
Suite 2850	06		Γ				(Deposit	tor's name)
Chicago, IL 606	100		Γ				((Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	A	ITORNEY DOCKET NO.	CONFIRMATION	l NO.
09/516,082	03/01/2000	•	Satoshi Murakami			SEL163	3545	
TITLE OF INVENTION AND METHOD OF MA			A THIN FILM TRANSI	STOR CO	OMPRISING A	SEMICONDUCTOR T	HIN FILM	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV.	PAID ISSUE F	EE TOTAL FEE(S) DU	E DATE DU	Е
nonprovisional	NO	\$1510	\$0	_	\$1440	\$1510	01/05/200)9
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
LEE, E	UGENE	2815	257-347000					
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a 2					
3. ASSIGNEE NAME A PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	data will appear on the oT a substitute for filing a (B) RESIDENCE: (CI	patent. In assignm	nent. ΓΑΤΕ OR COU	JNTRY)		
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individ	iual 🖵 Corp	oration or other private g	roup entity 🚨 Gov	ernment
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
			overpayment, to De	posit Acc	ount Number _	(enclose	an extra copy of this	form).
5. Change in Entity Sta a. Applicant claim	it us (irom status indicate is SMALL ENTITY stati		☐ b. Applicant is no le	onger clai	ming SMALL	ENTITY status. See 37 (CFR 1.27(g)(2).	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other that	_	_			party in
Authorized Signature				Da	ıte			
Typed or printed name								
This collection of inform	nation is required by 37 (CED 1 311. The informati	on is required to obtain s	r retain a	banafit by the	public which is to file (a	nd by the USPTO to	process
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	d application form to the ions for reducing this bu. Virginia 22313-1450. DC 313-1450.	e USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	y depending upon the inc e Chief Information Off COMPLETED FORMS	dividual ca icer, U.S. TO THIS	ase. Any comr Patent and Tra ADDRESS. S	nents on the amount of ademark Office, U.S. De END TO: Commissione	ime you require to c partment of Comment of Patents, P.O. B	complete rce, P.O. ox 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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75	90 10/03/2008		EXAM	INER
Cook Alex Mcfar	ron Manzo		LEE, EV	JGENE
Cummings & Mehl			ART UNIT	PAPER NUMBER
200 West Adams S	T		2815	
Suite 2850 Chicago, IL 60606			DATE MAILED: 10/03/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	09/516,082	MURAKAMI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	EUGENE LEE	2815	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in to or other appropriate commun IGHTS. This application is su	his application. If not included ication will be mailed in due course. THIS	
1. This communication is responsive to <u>8/22/08</u> .			
2. The allowed claim(s) is/are <u>46,47,52,53,56,58,59,61,62,64</u> 100,102,103,105,106,108,119,120,122,123,125,126,128-130,132		31,83,85,86,88-90,92,93,95,96,98-	
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application cuments have been received of this communication to file a	No n this national stage application from the	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date 	son's Patent Drawing Review of the contract of	•	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/18/08,8/22/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sur Paper No./M 7. ☐ Examiner's A	rmal Patent Application nmary (PTO-413), ail Date mendment/Comment tatement of Reasons for Allowance	
/Eugene Lee/			
Primary Examiner, Art Unit 2815			

Application/Control Number: 09/516,082

Art Unit: 2815

DETAILED ACTION

Page 2

Allowable Subject Matter

1. Claims 46, 47, 52, 53, 56, 58, 59, 61, 62, 64, 65, 67, 68, 70, 71, 73, 74, 76 thru 78, 81, 83, 85, 86, 88 thru 90, 92, 93, 95, 96, 98 thru 100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128 thru 130, 132, 133, 135, 136, and 138 thru 145 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film and the first conductive layer, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening, wherein the pixel electrode is in contact with a portion of the color filter in the second opening.

Regarding claims 52, 58, 61, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the passivation film, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first

Art Unit: 2815

conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening, wherein the pixel electrode is in contact with a portion of the color filter in the second opening.

Regarding claims 56, 59, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film, the first conductive layer and the first thin film transistor, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening, wherein the pixel electrode is in contact with a portion of the color filter in the second opening.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 4

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to EUGENE LEE whose telephone number is (571)272-1733. The

examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Lee

September 26, 2008

/Eugene Lee/

Primary Examiner, Art Unit 2815